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ABSIRACT

A TABULAR SUMMARY OF SCHOOI CCNSTRUCTION--PUBLIC AND NON PUBLIC--IN MICHIGAN FCR FISCAL YEAR 1967 IS PRESENTED. DISCUSSIONS OF SMALL PROJECTS APPROVALS, TRANSPORTABLE BUILDINGS, FUTURE CCNSTRUCTION, AND SPECIAL FACILITIES ARE INCLUDED. (FP0)

ED036056

DEPARTMENT OF EDUCATION
SCHOOL PLANT PLANNING SECTION
SCHOOL MANAGEMENT SERVICES

School Construction Summary
Fiscal 1967

During fiscal 1967, approvals were issued for 688 projects involving the construction of 4480 classrooms in all categories. Although the number of projects increased 16.75% for this fiscal year, the number of total classrooms decreased 10.2%. This may in some respect indicate the changing design of the classrooms into larger and more flexible areas of instruction.

PUBLIC SCHOOL CONSTRUCTION

This report includes in the category of secondary; all junior high, middle and intermediate schools.

At the elementary level a total of 367 projects were approved for construction. This total involved 60 new buildings, 296 additions to existing buildings, and 11 projects involving remodeling and rehabilitation. (Table I) There were 807 classrooms provided in new facilities and 981 additional classrooms provided in existing attendance centers. (Table II) The total of elementary classrooms represents 45.2 of the public elementary and secondary count total.

In the secondary field 34 new buildings were approved for construction and 127 additions to existing secondary plants were approved. This construction provided 1,049 secondary classrooms in new facilities and 863 additional classrooms at existing secondary schools. In addition there were 27 remodeling projects at the secondary level.

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TABLE I

PROJECT BREAKDOWN - FISCAL 1967

		PUBLIC										NON-PUBLIC									TOTAL PUBLIC + NON-PUBLIC									
		Elem.			Sec.			Higher				Elem.			Sec.			Higher			Elem.			Sec.			Higher			
Month	A&O	N	A	R	N	A	R	N	A	R		N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	Project Total
July	3	7	30	4	5	5	0	0	1	1		3	4	0	1	0	0	0	1	0	10	34	4	6	5	0	0	2	1	65
Aug.	5	5	48	0	5	25	2	3	0	0		1	1	1	0	2	0	0	0	0	6	49	1	5	27	2	3	0	0	98
Sept.	2	5	43	1	2	9	2	5	0	0		0	3	0	0	1	0	0	0	0	5	46	1	2	10	2	5	0	0	73
Oct.	0	6	30	0	1	13	1	0	0	1		1	2	0	0	0	0	0	3	0	7	32	0	1	13	1	0	3	1	58
Nov.	1	4	8	0	4	6	0	0	0	0		1	1	1	0	0	0	2	0	0	5	9	1	4	6	0	2	0	0	28
Dec.	1	8	15	0	0	6	3	1	0	1		0	2	1	0	0	0	0	0	0	8	17	1	0	6	3	1	0	1	38
Jan.	0	1	11	1	1	13	2	0	2	0		1	0	1	1	1	0	0	0	0	2	11	2	2	14	2	0	2	0	35
Feb.	1	4	7	1	0	5	2	0	0	2		0	3	0	2	1	0	0	0	0	4	10	1	2	6	2	0	0	2	28
March	2	4	19	0	4	11	4	2	1	0		3	2	1	0	1	0	2	0	1	7	21	1	4	12	4	4	1	1	57
April	0	3	22	1	5	11	3	2	0	4		2	8	0	0	0	0	0	0	0	5	30	1	5	11	3	2	0	4	61
May	3	9	25	2	2	10	1	3	1	3		0	4	3	1	2	1	0	0	0	9	29	5	3	12	2	3	1	3	70
June	1	4	38	1	5	13	7	2	1	1		1	0	0	0	2	0	1	0	0	5	38	1	5	15	7	3	1	1	77
Total	19	60	296	11	34	127	27	18	6	13		13	30	8	5	10	1	5	4	1	73	326	19	39	137	28	23	10	14	688

A&O - Administration & Operations
N - New
A - Additions
R.- Remodeling

TABLE II

CLASSROOM BREAKDOWN - FISCAL 1967

	New Buildings						Additions & Remodeling						Totals						
	Public			Non-Public			Public			Non-Public			Public			Non-Public			
Month	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	Grand Total
July	37	195	0	17	0	0	95	22	18	0	1	0	132	217	18	17	1	0	385
Aug.	128	151	66	4	0	0	136	98	0	6	13	0	264	249	66	10	13	0	320
Sept.	62	49	46	0	0	0	133	27	0	2	1	0	195	76	46	2	1	0	320
Oct.	89	42	0	0	0	0	80	73	0	8	0	30	169	115	0	8	0	30	322
Nov.	56	135	0	0	0	40	20	42	0	10	0	0	76	177	0	10	0	40	303
Dec.	118	0	33	0	0	0	45	78	0	10	0	0	163	78	33	10	0	0	284
Jan.	22	42	0	16	9	0	54	106	33	0	2	0	76	148	33	16	11	0	284
Feb.	66	0	0	0	64	0	41	29	0	15	19	0	107	29	0	15	83	0	234
March	58	193	0	37	0	42	89	92	10	6	0	0	147	285	15	43	0	42	527
April	50	84	13	10	0	0	75	160	4	31	0	0	125	244	17	41	0	0	427
May	65	50	78	0	6	0	81	55	10	10	0	0	146	105	88	10	6	0	355
June	56	108	0	12	0	16	132	81	23	0	9	0	188	189	23	12	9	16	437
Totals	807	1049	236	96	79	98	981	863	98	98	45	30	1788	1912	334	194	124	128	4480

E - Elementary
S - Secondary
H - Higher

NON-PUBLIC SCHOOL CONSTRUCTION

A total of 14 new elementary schools and 27 additions were approved for construction. These projects provided 96 new classrooms at the new school and 98 additions to classrooms at existing elementary centers.

At the secondary level 5 new schools were approved providing 98 classrooms and secondary school additions provided 45 additional classrooms.

On a total basis 91.9 per cent of elementary and secondary classrooms construction was for public schools and 8.1 per cent for non-public schools. The total number of classrooms elementary & secondary approved for construction declined from 587 in fiscal 1966 to 318 in fiscal 1967.

SMALL PROJECTS APPROVALS

Projects having a monetary worth of less than $15,000 do not require the services of an architect under Michigan Law. These projects represent a wide range of school districts buildings activities. Projects such as bus garages, concession stands, room partitions, boiler replacement, pressbox, athletic stadium, fire safety remodeling, and heating plant renovations were among 81 such projects approved for construction in fiscal 1967.

TRANSPORTABLE BUILDINGS

The use of transportable, relocatable, prefabricated, or mobile units increased tremendously in fiscal 1967. The number of projects increased from 78 in fiscal 1966 with a total of 173 classrooms to a rousing 190 projects including 366 classroom units in fiscal 1967. This represented 141.4% increase over the previous fiscal year. 8.1% of the total number of classrooms approved for construction in fiscal 1967 were portable units.

Transportable Buildings continued . . . . .

School districts faced with a shortage of classrooms turned to the portable units as an immediate solution. A number of reasons have caused this need, (1) failure of school bond issues; (2) delays in construction; (3) highly mobile population; (4) federal funds; (5) re-organization of school districts; (6) reduction in non-public school construction. Transportable units have the disadvantage of being physically separated from the main building and thus causing travel by students for library, services, physical education, cafeteria, music and similar areas of instruction.

CONSTRUCTION FUTURE

Preliminary plans received in fiscal 1967 indicates that construction will continue at a high level in fiscal 1968. A number of districts which reorganized under Act 289 have submitted preliminaries or are planning secondary plants

An encouraging number (98) of special education rooms were approved for construction in fiscal 1967. Originally housed in temporary classrooms such as churches, and community centers, school plants at all levels are including facilities for special education.

Special attention will be given to school facilities in 1968. The School Plant Planning Section will carry out an extensive survey of all school facilities in the fall of 1968. Material assembled from school districts will include site, and building information.

SPECIAL FACILITIES

In Table III special facilities are tabulated as totals for elementary, secondary, & higher education and extended as a single item.

Following are some specialized facilities which are increasing in number, but are included in the categories below. Planetariums, commons areas, field houses, cafeterias, central kitchens, greenhouses, and outdoor laboratories are all becoming part of the total school plant.

TABLE III

Special Facilities

	Public	Non-Public	Total
Multi-purpose room	71	29	100
Gymnasium	21	9	30
Library	84	31	115
Auditorium	10	4	14
Swimming Pool	12	3	15
Kitchen	67	15	82

MICHIGAN SCHOOL CONSTRUCTION REPORT

This is a statistical report on the volume of school construction in 1967. The gross volume was 638 approved projects* including 4,718 classrooms at all levels. In Public Education there were 1660 Elementary, 2199 Secondary, and 453** Higher Education classrooms, approved for construction In Non-public Education the respective figures were 183, 141, and 82.

Tabular Presentation

Table I gives a project breakdown during calendar 1967. The data are listed according to grade level, ownership, and type of project.

Table II presents data on classroom construction during the same period differentiating between those rooms provided in new plants and those provided through additions and remodeling.

Table III lists the special facilities provided for public schools during calendar 1967.

Table IV lists the special facilities provided for non-public schools during calendar 1967.

Table V gives the gross number of school construction projects by counties for calendar 1967.

Table VI gives the number of classrooms constructed by calendar years and an accumulative total.

Table VII lists the number of transportable mobile units for each year from 1959 to 1967.

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* Having a monetary worth in excess of $15,000.

** Does not include University of Michigan, Michigan State University, or Wayne State University construction.

TABLE I

Project Breakdown - Calendar 1967

MONTH	Adm. & Opr.	PUBLIC									NON-PUBLIC									TOTAL									Project Total
		E			S			H			E			S			H			E			S			H			
		N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	N	A	R	
January	0	1	11	1	1	13	2	0	2	0	1	0	1	1	1	0	0	0	0	2	11	2	2	13	2	0	2	0	35
February	1	4	7	1	0	5	2	0	0	2	0	3	0	2	1	0	0	0	0	4	10	1	2	6	2	0	0	2	28
March	2	4	19	0	4	11	4	2	1	0	3	2	1	0	1	0	2	0	1	7	21	1	4	15	4	4	1	1	57
April	0	3	22	1	5	11	3	2	0	4	2	8	0	0	0	0	0	0	0	5	30	1	5	11	3	2	0	4	61
May	3	9	25	2	2	10	1	3	1	3	0	4	3	1	2	1	0	0	0	9	29	5	3	12	2	3	1	3	70
June	1	4	38	1	5	13	7	2	1	1	1	0	0	0	2	0	1	0	0	5	38	1	5	15	7	3	1	1	77
July	0	2	46	2	4	20	2	1	0	0	3	4	0	0	0	1	1	0	0	5	50	2	4	20	3	2	0	0	86
August	3	8	38	2	2	16	2	2	1	0	0	2	0	1	2	0	1	2	0	8	40	2	3	18	2	3	3	0	82
September	0	3	17	0	5	8	1	1	0	0	0	2	1	0	0	1	0	0	0	3	19	1	5	8	2	1	0	0	39
October	1	3	17	0	3	11	1	3	0	0	0	2	0	1	2	0	0	1	0	3	19	0	4	13	1	3	1	0	45
November	0	7	5	0	5	8	0	2	0	2	1	0	0	0	0	0	0	0	0	7	5	0	6	8	0	2	0	2	30
December	0	2	14	0	0	8	0	1	0	0	0	2	0	0	1	0	0	0	0	2	16	0	0	9	0	1	0	0	28
TOTAL	11	50	259	10	36	134	25	19	6	12	11	29	6	6	12	3	5	3	1	60	288	16	43	146	28	24	9	13	638

E-Elementary N-New Adm. & Opr.-Adminstration & Operation
S-Secondary A-Addition
H-Higher R-Remodeling

TABLE II

CLASSROOM BREAKDOWN - CALENDAR 1967

MONTH	NEW BUILDINGS						ADDITIONS & REMODELING						TOTALS						GRAND TOTAL
	PUBLIC			NON-PUBLIC			PUBLIC			NON-PUBLIC			PUBLIC			NON-PUBLIC			
	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	
January	22	42	0	16	9	0	54	106	33	0	2	0	76	148	33	16	11	0	296
February	66	0	0	0	64	0	41	29	0	15	19	0	107	29	0	15	83	0	234
March	58	193	0	37	0	42	89	92	10	6	0	0	147	285	10	43	0	42	527
April	50	84	13	10	0	0	75	160	4	31	0	0	125	244	17	41	0	0	427
May	65	50	78	0	6	0	81	55	10	10	0	0	146	105	88	10	6	0	355
June	56	108	0	12	0	16	132	81	23	0	9	0	188	189	23	12	9	16	437
July	34	168	0	14	0	2	78	144	0	9	2	0	112	312	0	23	2	2	451
August	158	47	9	0	0	0	126	57	1	6	11	22	284	104	10	6	11	22	437
September	51	206	13	0	0	0	66	51	0	10	0	0	117	257	13	10	0	0	397
October	40	132	163	0	9	0	38	101	0	1	1	0	78	233	163	1	10	0	485
November	140	140	49	1	0	0	33	91	0	0	0	0	173	231	49	1	0	0	454
December	48	0	47	0	0	0	59	62	0	5	9	0	107	62	47	5	9	0	230
TOTAL	788	1170	372	90	88	60	872	1029	81	93	53	22	1660	2199	453	183	141	82	4718

Key: E.=Elementary
S = Secondary
H = Higher

TABLE III

Public School Special Facilities

1967

Month	Libray			Multi-Purpose			Gymnasium			Auditorium			Swimming Pool			Kitchen	
	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	E	S
January	4	4	0	5	7	0	0	4	0	0	1	1	0	3	0	5	4
February	4	3	0	6	3	0	0	0	0	0	0	0	0	1	0	5	0
March	12	5	2	16	7	1	2	7	0	0	2	0	0	3	0	15	6
April	4	2	2	1	3	0	0	1	0	0	1	0	0	1	0	10	6
May	13	4	4	5	2	2	1	2	0	0	2	1	0	2	0	4	2
June	13	6	2	8	4	1	1	3	0	0	1	1	1	1	0	6	4
July	14	6	0	5	7	1	1	5	0	0	4	0	0	4	0	4	5
August	12	3	1	6	3	2	1	3	0	0	0	0	0	0	1	6	2
September	6	5	0	5	3	0	0	4	0	0	2	0	0	2	0	3	5
October	3	8	2	7	3	0	0	2	0	0	4	2	2	2	0	5	4
November	10	9	0	10	6	0	4	5	0	0	2	1	1	2	0	3	3
December	6	2	3	1	1	0	0	1	0	1	0	0	0	1	0	3	0
TOTAL 1967	101	57	16	75	49	7	10	37	0	1	19	6	4	22	1	69	41
TOTAL 1966	103	55	11	101	46	1	9	45	4	6	22	2	2	24	0	46	38
TOTAL 1965	97	52	9	102	47	3	7	29	2	2	8	2	0	8	2	54	56

Key: E-Elementary
S-Secondary
H-Higher

TABLE IV

Non-Public School Special Facilities

1967

Month	Library			Multi-Purpose			Gymnasium			Auditorium			Swimming Pool			Kitchen	
	E	S	H	E	S	H	E	S	H	E	S	H	E	S	H	E	S
January	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
February	2	2	0	1	2	0	0	1	0	0	0	0	0	0	0	0	1
March	3	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0
April	5	0	0	5	0	0	1	0	0	0	0	0	0	0	0	4	0
May	0	2	0	2	1	0	0	1	0	0	1	0	0	0	0	2	0
June	1	1	0	1	1	0	0	2	0	0	0	0	0	0	0	1	0
July	4	0	1	4	0	1	0	0	0	0	0	0	0	0	0	1	0
August	0	1	2	1	0	0	0	1	1	0	0	1	0	0	0	0	2
September	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	2	0
October	0	1	0	0	2	0	1	1	1	0	0	0	0	0	0	1	1
November	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
December	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL 1967	18	10	4	18	8	1	2	9	2	0	1	2	0	0	1	12	5
TOTAL 1966	18	8	3	21	5	2	6	6	1	1	3	1	0	1	2	11	5
TOTAL 1965	12	7	3	6	7	2	4	7	1	0	2	0	0	0	0	7	6

Key: E-Elementary
S-Secondary
H-Higher

TABLE V

School Construction Projects by County - Calendar 1967

	Public	Non-Public
Alcona	0	0
Algor	0	0
Allegan	7	1
Alpena	1	0
Antrim	3	0
Arenac	0	0
Baraga	2	0
Barry	0	0
Bay	3	2
Benzie	0	0
Berrien	9	4
Branch	0	0
Calhoun	3	1
Cass	0	0
Charlevoix	1	0
Cheboygan	1	0
Chippewa	0	0
Clare	2	0
Clinton	8	0
Crawford	0	0
Delta	0	0
Dickinson	1	0
Eaton	8	0
Genesee	26	4
Gladwin	3	0
Gogebic	0	1
Grand Traverse	1	0
Gratiot	10	0
Hillsdale	2	0
Houghton	0	0
Huron	6	0
Ingham	25	1
Ionia	3	0
Iosco	4	0
Isabella	2	0
Jackson	12	2
Kalamazoo	20	3
Kalkaska	2	0
Kent	15	8
Keweenaw	1	0
Lake	0	0
Lapeer	4	1
Leelanau	2	0
Lenawee	6	1
Livingston	8	0
Luce	0	0

	Public	Non-Public
Mackinac	1	0
Macomb	84	2
Manistee	1	0
Marquette	5	0
Mason	0	0
Mecosta	7	0
Menominee	3	0
Midland	2	0
Missaukee	0	0
Monroe	4	1
Montcalm	11	0
Montmorency	0	0
Muskegon	16	0
Newaygo	2	0
Oakland	93	8
Oceana	4	0
Ogemaw	1	0
Ontonagon	0	0
Osceola	1	0
Oscoda	0	0
Otsego	0	0
Ottawa	8	2
Presque Isle	0	0
Roscommon	3	0
Saginaw	22	3
St. Clair	4	1
St. Joseph	0	0
Sanilac	2	1
Schoolcraft	1	0
Shiawassee	7	0
Tuscola	4	0
Van Buren	3	1
Washtenaw	22	3
Wayne	53	17
Wexford	1	1
TOTALS	638	

TABLE VI

School Construction by Calender Year

(Classrooms)

PUBLIC					NON-PUBLIC				
Year	Elem.	Sec.	Total	Cum. Total	Year	Elem.	Sec.	Total	Cum. Total
1957	2210	1478	3688		1957	271	131	402	
1958	1422	1599	3021	6,709	1958	371	99	470	872
1959	1709	1460	3169	9,878	1959	331	184	515	1,387
1960	1733	1883	3616	13,494	1960	269	107	376	1,763
1961	1345	1188	2533	16,027	1961	263	147	410	2,173
1962	1180	1644	2824	18,851	1962	318	119	437	2,610
1963	1785	1198	2983	21,834	1963	322	284	606	3,216
1964	1379	2147	3526	25,360	1964	263	75	338	3,554
1965	1839	1523	3362	28,722	1965	284	272	556	4,110
1966	1816	1982	3798	32,520	1966	207	125	332	4,442
1967	1660	2199	3859	36,379	1967	183	141	324	4,766

TABLE VII

Transportable Mobile Units

1959	5	1963	9
1960	7	1964	39
1961	0	1965	105
1962	8	1966	309
		1967	384

GRAND TOTAL 866

TEN YEAR SUMMARY

Projects - Classrooms - Public

Fiscal Yr.	Elementary		Secondary		Total	
	Projects	Rooms	Projects	Rooms	Projects	Rooms
1958	290	1767	137	1378	427	3145
1959	210	1457	131	1598	341	3055
1960	249	1850	145	1709	394	3559
1961	234	1497	127	1446	361	2943
1962	188	1227	123	1262	311	2489
1963	227	1492	149	1710	376	3202
1964	242	1620	126	1600	368	3220
1965	229	1541	141	1700	370	3241
1966	260	1761	169	1864	429	3625
1967	367	1788	188	1912	555	3700
TOTAL	2496	16000	1436	16179	3932	32179

Projects - Classrooms - Nonpublic

Fiscal Yr.	Elementary		Secondary		Total	
	Projects	Rooms	Projects	Rooms	Projects	Rooms
1958	66	336	16	127	82	463
1959	59	323	12	121	71	444
1960	64	330	20	157	84	487
1961	54	258	10	94	64	352
1962	61	303	13	131	74	434
1963	52	313	21	199	73	512
1964	49	293	26	240	75	533
1965	44	266	17	110	61	376
1966	55	286	21	301	76	587
1967	51	194	16	124	67	318
TOTAL	555	2902	172	1604	727	4506